

Kata Kunci : Umur, Masa Kerja, Penggunaan Masker, Status Gizi, Kapasitas Vital Paru, Debu Kayu

SOME FACTORS RELATED TO THE LUNGS VITAL CAPACITIES OF WORKERS WHO WERE POLLUTED WITH DUST AT POLISHED DIVISION AT CV. RICO GALLERY, JEPARA 2007

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ABSTRACT

This research was conducted at polished division with high rate of dust exceed the value of NAB (Nilai Ambang Batas) which has been stated by the ministry of industrial No. SE-01/MEN/1997 as valued (3.39 mg/m). One of the causes of lungs dysfunction is the existence of dusts which come into the lungs. To measure the vital capacities of the lungs we conducted certain inspection by using Spirometer which included VC, FVC, FEV, with type of restriction dysfunction was the damage of the lungs tissue and the obstruction that was the stopped up of the breath channel. Several factors related to the vital capacities of the lungs were age, occupation, the use of mask, and the status of nutrition. The aim of this research is to investigate the correlation between age, occupations, the use of mask, and status of nutrition with the vital capacities of the workers who were polluted with dusts at polished vision at CV. Rico Gallery, Jepara.

This research was an explanatory research by using interview method, measurement and questioner with a Cross Sectional approaches. The amount of samples in this research included 22 persons. This research used statistic correlation test of Rank Spearman with the level of significant (?) 0.05.

Based on the result of the statistical test presented that there was no correlation between the amount of time working years and the vital capacities of the lungs with p value $0.061 > ? 0.05$, there is no correlation between nutrition value and the capacities of the lungs with p value $0.222 > ? 0.05$, there was correlation between age with the vital capacities of the lungs with p value $0.032 < ? 0.05$, there was correlation between the use of mask with the vital capacities of the lungs with p value $0.000 < ? 0.05$.

Therefore, from the result the use of mask has the higher significant strength compared to age, because the workers habit like closing their mouth and nose by using masks related to their vital capacities of their lungs.

Therefore, there is some suggestions to the workers that they should always wear masks at work especially in polished division. A company should provide the amount of mask to the workers.

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